![OPTEX Sensing Innovation logo]

Redscan RLS-3060L / RLS-3060L-PoE ver. 8.0

Long range LiDAR up to 30m radius – 190 degrees

The REDSCAN RLS-3060L version 8 is a high resolution indoor and outdoor 190 degree LiDAR that detects the size, speed and distance of a moving object up to 30m radius.

The RLS-3060L series can be used horizontally to create a virtual plane or vertically to create a virtual wall. Its detection algorithm provides the exact location of moving objects in the selected detection areas. When connected to a video surveillance system, different event rules can be defined for each detection zone creating a unique security system.

LiDAR technology is unaffected by different lighting conditions, shadows or heat sources. Built-in analytics ensure that the REDSCAN sensors adapt efficiently to environmental changes, such as weather and scenery.

These features make the RLS-3060L an extremely reliable detection device, even in harsh conditions.

Horizontally mounted the laser sensor detects moving people and objects within 30m radius Vertically when mounted up to 15m height, it detects over 60m which allows to create a virtual perimeter or protect the façade of a building.
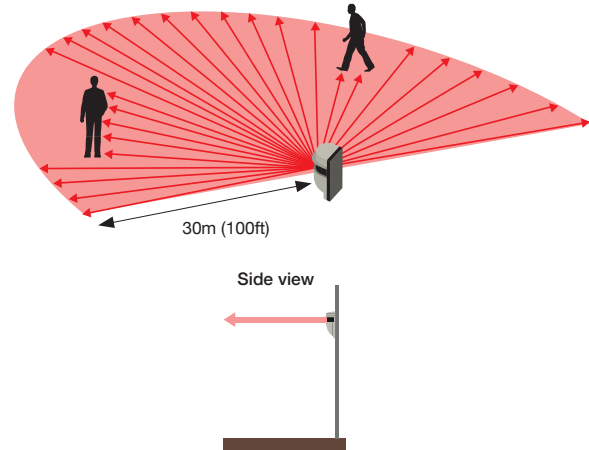
Available models: RLS-3060L, RLS-3060L-PoE (RLS-3060L with IP/PoE encoder PiE-1)*.

*Both devices provide IP and relay outputs to send alarms and events to any type of security systems.

Vertical mode

4-15m (13-50ft)

Side view

Horizontal mode

30m (100ft)

Side view
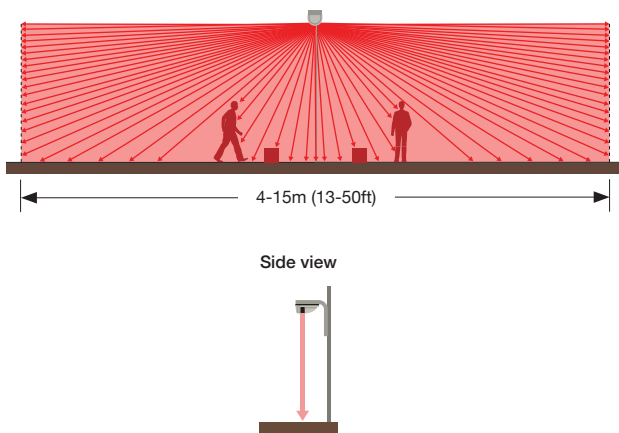
Key features

- 30m radius, 190 degree 2D LiDAR
- High resolution – detect 30cm wide objects within 30m radius?
- 4 independently adjustable detection areas with 4 outputs on analogue connection
- 8 independently adjustable detection areas on IP connection sending Redwall event codes to integrated VMS/ NVR platforms
- Adjustable alarm duration

- Detection area very easy to adjust with the configuration software, including area allocation, area masking, pattern selection
- Loitering and indoor hand detection mode available
- Unique detection algorithm providing X and Y coordinates
- Anti-vandalism (anti-masking, anti-rotation)
- Independent alarm, trouble and tamper outputs

Time of flight technology

Using time of flight technology, the sensor calculates the time the beams emitted will take to come back to the sensor after hitting an object in the detection area. This technology isn't affected by any type of lighting and heat source making it extremely reliable in harsh environments and an ideal intrusion detection sensor.

Video Management Software and PSIM integration

The REDSCAN RLS-3060 series is integrated with many Video Management Software and PSIM platforms allowing a number of security scenario including triggering lights, camera pre-set position, public address messages and notification to security staff. Visit our website for the list of integrations.

Independent detection areas

Analogue	IP connection

Area Allocation

Detection area A1
Detection area B1
Detection area A2
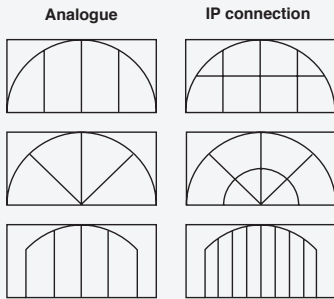
Area Masking

Non-detection area

Loitering Detection

Detection

Wall climb detection

Detection

Specifications

Model		RLS-3060SH	RLS-3060SH PoE
Detection method		Infrared Laser Scan	
Laser protection class		Class1	
Coverage	Vertical area*	Max. 60m (Approx. 200ft.) at 10% reflectivity	
	Horizontal area*	Radius:30 m (Approx. 100ft.), Arc:190° at 10% reflectivity	
Detection resolution		0.25°	
Communication port		Ethernet ,RJ-45 ,10BASE-T/100BASE-TX	
Protocol		UDP, TCP/IP *Redwall Event Code	
Power input		24 VDC 24 VAC	802.3at (POE+) 24v (PIE-1 connection)
Current draw		400mA max. (24 VDC) 600mA max. (24 VAC)	14.4 watts (peak at boot) 9.6 watts (Idle)
Mounting height	Vertical area	15 m (50ft.) (recommendation)	
	Horizontal area	0.7 m (28in.) (recommendation)	
Target object selector		S / M / L	
Sensitivity selector		H / M / L	
Camera control output *		N.O. 28 VDC, 0.2 A x 4 outputs / Can be changeable to N.C. with RSM ver.8.	
Master alarm output		Form C, 28 VDC, 0.2 A max.	
Trouble output (anti-masking/rotating-soiled lens-DQ)		Form C, 28 VDC, 0.2 A max.	
Tamper output		N.C. 28 VDC, 0.1 A max.	
Environmental disqualification circuit		Form C, 28 VDC, 0.2 A max.	
Alarm period		Approx. 2 sec., Off delay timer	
Operating temperature		-20 to 60 °C (-4 to 140° F)	
IP rating		IP66	
Dimensions (H x W x D)		334 x 144 x 155 mm (13.2 x 5.7 x 6.1 in.)	
Weight		2.4kg (85 oz.)	

Note: Specifications and design are subject to change without prior notice

Product dimensions

(5.7)(6.1)   (0.7)(2.5)

92 (3.6)
334 (13.2)
135 (5.3)
107 (4.3)

Wiring holes
4-M20 x 1.5

Unit:mm(inch)
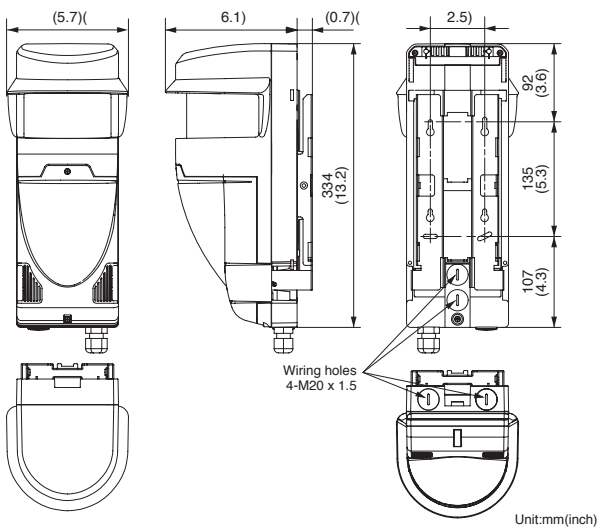
Redscan Manager ver. 8.0

(Configuration and set-up software required for activating all features)

Accessories

For set-up: LAC-1 Laser Area Checker.
For installation: RLS-PB pole bracket and RLS-SB swing bracket (for tilting the sensor).